10- preumatic dent puller

12- preumatic hammer

14- handle

16- trigger

18- ar hase fitting

20- air hose

22- housing

24- nose end

26- operture for mose

28- threaded member

30- dented surface portion 29

32- panel of 30

34- hole formed in 30

Patent Drawing Tabulation Pg. 2

36 U-shaped tool 2B

38- Structure as

40- right-angled tool 20

42- boxed structure 20

44- base for 36

46 base for 40

48- Stud for 36 4 40

50 Slider switch

50-

54-

56-

58-

PRE-DEVELOPMENT QUESTIONNAIRE SAB

The following information request will be needed for the creation of all of the written materials for your project. Please return this information to us as soon as possible. Consult your Inventors Manual for more information and direction. **PLEASE COMPLETE ALL QUESTIONS.**

Be careful to write names, etc. exactly as you want them to appear on all official documents.

		(PLEASE PRINT CLEAR	LY)	
NAME	Justin (FIRST)	Wade (MIDDLE)	<u>Snowden</u>	
CO-INVENTOR	R†		(2.2.2.)	
	(FIRST)	(MIDDLE)	(LAST)	
♦Only fill in if a name should ap	this is a <u>true co-</u> opear on the pat	nventor, who had a hatent application.	and in inventing the pro	duct and whose
ADDRESS	(APT. OR HOUSE #) (STREET)		
	(CITY)	(STATE)	(ZIP CODE)	
Home Phone:()	Work Phone:()	•
PRODUCT NAI	ME			
***All items ma participate in the l time, please initial	Press Release part	risk (*) ARE OPTIONAL of the program. <i>If you wi</i>	. This information is neede ish to decline the Press Relea	d if you choose to se program at this
MARITAL STA	TUS*			
SPOUSE'S NAM	TE *	(MIDDLE)	(LAST)	
CHILDREN*				
GRANDCHILDI	REN*			
			POSITION*	·
YOUR HOBBIE	S AND INTERE	STS:*		

	D YOUR INVENTION/ OTHER PERTINENT INFORMATION PFUL IN PROMOTING YOUR IDEA (Attach additional sheets if
necessary).	
On ba	ch of this sheet
including your Patent Appli	is VITAL to the preparation of most of the items associated with your project, cation. Please provide as much detail as possible. Refer to the Inventors Manual EVELOPMENT QUESTIONNAIRE." ATTACH EXTRA SHEETS IF
	n looks in detail. If you have a drawing or photograph, please attach it and label the function of each part and how it works.
Note: If an illustration was	done for you by us, please check which of the following apply:
	☐ Jilustration is fine as-is. I have attached a copy of it.
	I have attached a copy of it and indicated all necessary changes.
	☐ Refer to my sketch (below, or attached) and provide completely new drawings.

2. From start to finish, state exactly how your invention is used (as if you are writing an instruction booklet to accompany the product.) First, make a hale in the dented area of the panel using a drill or seratch awl. Then, thread the serew end of the pauller into the hale. With an air hose attached, pull the trigger of the tool, while applying pressure to the handle. When the dest is prulled, remove the tool, grind the paint from the dented area and finish with desired body like.

3. In comparison to products that are currently patented or used to perform this task or fill this need that you know of, how is your invention different, better and unique? Make direct comparisons of the advantages your invention has over the others. A traditional dent puller has a heavy weight or "slide hammer. This weight requires quite a large amount of energy be exerted upon it by the technician pulling the dent.

A pneumatic puller would be a new relatively light-weight solution to this problem. The air hammer would greatly decrease the amount of physical energy needed to perform the same task.

The vibration of an air hammer is considerably less about than the slapping action of a slide hammer and mould therefore, greatly reduce upon hands and arms, would therefore, greatly reduce upon hands and arms, knuckles from fingers being in the wrong place at the wrong time.

5lide hammers are a dinosaur in the autobody field, and it's time for a change in acient methods.

4. Name any other use(s) for or benefit(s) of your invention:

Mechanics use slide ham mers for pulling bearings, and harmonic balancers, with the right attachments, the pneumatic puller could be just as useful for mechanics as for autobody. This has the potential to become a vital tool throughout the automotive repair industry.

5. What else can you disclose about your invention?

This informa	ation was written on the	3 th day in the	e month of <u>Augus</u> +	_in the year <u>2000</u> by
a	200			

Sign Name:

Print Name: Justin Somude

AIR POWERED all attachments DENT PULLER for traditional should be considered.

some dent pullers attach to well-on copper stude instead of using a hole and screw POSSIBLE DEPTH method It may be prossible **ADJUSTABILITY** to make such an attachment for the pneumatic puller. 1/8" 1/4" 3/8" O ther attachments include harmonic balancer puller d bearing pauller. **PNEUMATIC** AIR HAMMER DEPTH SLIDER a stud could be into the SCREW puller sheets to be replaceable possible of its and of its street • DENT PULLER IS INSERTED INTO DENTED PANEL • TRIGGER IS PRESSED TO PULL SCREW / DENT OUT attachment AUG 17 2000

> JUSTIN W. SNOWDEN 5/31/00 SG

PTO/SB/95 (06-1999) Approved for use through 5/31/2002. OMB 0651-0030

Patent and Trademark Office; U.S. DEPARTMENT OF COMMU Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

DISCLOSURE DOCUMENT DEPOSIT REQUEST

Mail to: Box DD Assistant Commissioner for Washington, DC 20231	r Patents
Inventor(s): Justin Snowde	M ·
Title of Invention: Air powered de	
The undersigned, being a named in the enclosed papers be accepted un they be preserved for a period of two signature of Inventor(s)	ventor of the disclosed invention, requests that der the Disclosure Document Program, and that to (2) years. 3181 HWY 16 Address
Justin Snowden Typed or printed name	
3-26-00 Date	Pang burn, AR, 72121 City, State, Zip
'*(For Office Use Only) Enclosed is a Disclosure of the a sheets of drawings. A check in the amount of \$	bove-titled invention consisting of sheets of description and is enclosed to cover the fee (37 CFR 1.21 (c)).

DISCLOSURE DOCUMENT NO.

523153

RETAINED FOR 2 YEARS THIS IS NOT A PATENT APPLICATION

PTO-1652 (8/99)

INVENTOR'S QUESTIONNAIRE

Please fill out this questionnaire to your best ability. Some of the information requested may appear to be redundant, but it does allow our Staff to provide you with clear, concise information. Consult your representative for any assistance or guidance. 1. How would you like your name to appear on all written materials? Justin Wade Snowden 2. If you have a co-inventor or co-inventors, do you want their name to appear on all materials? Yes X No. If so how do you want their name to appear? 3. How would you like the Invention Name to appear on all written materials? Theumatic dent-puller 4. Describe your Invention/Idea in as much detail as possible: (Please attach additional paper to this form if necessary) page attached. 5. Provide instructions as to how someone would use your Invention/Idea: the technician makes a hole in the dented panel with a drill or punch. The threaded end of the puller is then screwed in the hole . The technician then pulls the trigger of the puller + applies pressure to the handle pulling the dent with minimal effort of time being spent 6. List all of the benefits and/or advantages that your Invention/Idea has: Increased productivity, shortens work time, decrease in physical effort, lessens chance of hand injury

soive this	
It sav	es time of increases productivity
8. Do yo your Invo No	u have any suggestions as to the materials necessary to manufacture ention/Idea? If so, what would you recommend?
7. What	do you think the retail price of your Invention/Idea would be? $5_{ extstyle extstyl$
	stores, outlets or distributors would carry your Invention/Idea?
Show - Oc	Tools, MATCO Tools, Crow-Builingame, Wal-mart,
Karpro	MATCO 18013, Crow-Bullingame, Wal-mart,
1. What	
their	products, if any, would compete with your Invention/Idea? What a retail prices?
their trudition	products, if any, would compete with your Invention/Idea? What a retail prices? al Slide hammer
their radition 2. Who	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer to you feel would buy your Invention/Idea?
their radi tion 2. Who	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer to you feel would buy your Invention/Idea?
2. Who	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer to you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics
2. Who of	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer to you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics
2. Who of	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer to you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics
2. Who a Jutobody	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer do you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics ny additional comments here: all slide hammers sometimes come with 90° or nocks on the end instead of the seven for pulling
2. Who a Jutobody	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer to you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics
2. Who a Autobody: 3. Add a Man	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer do you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics ny additional comments here: all slide hammers sometimes come with 90° or nocks on the end instead of the seven for pulling
2. Who a Autobody: 3. Add a Man	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer do you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics ny additional comments here: all slide hammers sometimes come with 90° or nocks on the end instead of the seven for pulling
2. Who a Autobody: 3. Add a Man	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer do you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics ny additional comments here: all slide hammers sometimes come with 90° or nocks on the end instead of the seven for pulling
2. Who a Autobody: 3. Add a Man	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer do you feel would buy your Invention/Idea? technicians (especially total rebuilders), Mechanics ny additional comments here: all slide hammers sometimes come with 90° or nocks on the end instead of the seven for pulling
2. Who a Autobody: 3. Add a Man	products, if any, would compete with your Invention/Idea? What a retail prices? al slide hammer do you feel would buy your Invention/Idea? technicians (especially total rebuilders), mechanics ny additional comments here: ual slide hammers sometimes come with 90° or nocks on the end instead of the seven fix pulling

^{***} If the drawing that you provided us with on the Official Record of Invention is not a detailed drawing, please attach a detailed drawing to this form. Please, if appropriate, label each part.

FEB 2 6 2000

The Law Office of David P. Gaudio, P.C.

THE INVENTORS NETWORK

800 Old Pond Road Suite 702 Bridgeville, PA 15017 toll-free phone: 1-888-477-9773 toll-free fax: 1-888-486-9788

INVENTOR'S OFFICIAL RECORD OF INVENTION

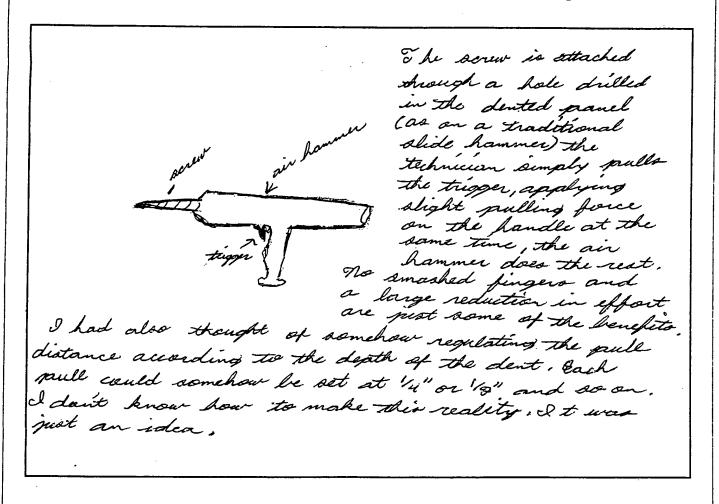
INVENTOR NAME Justin Wade Snowden
(FIRST) (MIDDLE) (LAST)
ADDRESS 3181 HWY 16
CITY Pangburn STATE AR ZIP CODE 7212
TELEPHONE: RESIDENCE (501) 728 - 4071
BUSINESS ()
IDEAL CONTACT TIME: M-SF 2-5 pm
CO-INVENTOR NAME:
(FIRST) (MIDDLE) (LAST)
Let it be known to all that I have conceived the product/idea illustrated and described herein which is called:
Air powered dent-puller
(PRODUCT/IDEA NAME)
The Inventors Network, its employees and representatives, hereby guarantee, without exception, that your new product/idea disclosed herein shall not be used, sold, assigned, or disclosed to any corporation, organization, or person without your prior written permission. This agreement is fully binding.
The undersigned (David P. Gaudio) hereby promises to keep this information confidential as per the canons of ethics and rules of professional conduct. Confidence refers to information protected by the attorney-client or agent-client privilege under applicable law. Attorney David P. Gaudio Pennsylvania I.D. #77010
INVENTOR(S) SIGNATURE(S) JUST Smowd (DATE) 2-18-00 Revised 8-18-98

Notice: PROHIBITED INVENTIONS:

The following are categories of ideas or inventions that are <u>not</u> acceptable for research and development by The Inventors Network: 1. Perpetual motion device or machine (any invention that can run indefinitely without re-generating the energy source.) 2. Products or ideas using the name, likeness, or logo of an individual group or corporation (i.e. a "Batman" doll). 3. Chemical formulas or medications 4. Product ideas without component design, or based on an unrealistic level of technology (i.e. ideas that have no plans as to how it should actually work). 5. Pornographic devices or products, or those considered harmful or in poor taste. 6. Military weapons. 7. Ideas not related to products such as: *a. Business franchises. *b. Services to consumers, business, or government. *c. Advertising slogans or campaigns. *d. Literary or musical works. *e. Suggested public policies. For all items marked with an asterisk(*), we can help you with trademark or copyright protection for these types of ideas, but cannot assist in the marketing of them.

ILLUSTRATION

Please furnish a drawing of your product idea in the space provided. A professional illustration is not necessary nor expected. If photographs are available, please attach.



Please list suggested components and materials, etc.:

DO NOT SUBMIT PROTOTYPES OR WORKING MODELS UNLESS REQUESTED. THE INVENTORS NETWORK IS NOT RESPONSIBLE FOR THE SAFE ARRIVAL, HANDLING, MANAGING OR RETURN OF ANY PROTOTYPES MAILED TO OUR ATTENTION UNLESS REQUESTED BY THE INVENTORS NETWORK.

PRODUCT/IDEA DESCRIPTION
Describe your product/idea. Attaches to dented panel by screw. Rod is pulled back by Air powered hammer.
Explain the product/idea's function(s). Operates as a slide-hammer body tool with minimum effort.
List the product/idea's benefits and unique qualities. reduced effort linereased productivity. Jessen Chance of injured hands
If this is an improvement on an existing product, list the new benefit(s).
BACKGROUND INFORMATION When did you conceive your product/idea? Feb 5/00 Briefly state how you first conceived this idea (work, hobby, etc.). Needed product at the work List those individuals to whom you have revealed your product/idea. Jimmy Martin
Have you constructed a prototype? Yes/crude Has it been tested/used? Yes

		y . —
PATENT STATUS	YES	NO
Has a patent search been conducted? If yes, please attach.		ø
Have you filed a patent application on your product/idea?		₽.
Do you have an issued Patent on your product/idea? If yes, please indicate date of issue or attach a copy		⊠
Have you made a public disclosure of your invention or offered it for sale? If yes, please explain:		⊠
AREAS OF SPECIAL INTERES	T	
Please check areas of interest or need.		
☑ Patent Development ☑ License Negotiation		☑ Distribution
☑ Prototype Development ☑ Manufacturing Cont	acts	☑ Graphic Arts
ADDITIONAL INFORMATION	r	
Please include any additional information you feel may hel product/idea.	p us in	understanding your

ſ

The puller is like a traditional slide ha	immer with a
Preumatic hammer instead of the old slide	weight. In air
hemmer with a handle underneath has a thr	ead screwon one
end. The air hammer applies pressure in t	he apposite direction
of the screw end when the trigger on H	re handle is pulled.
Essentially it is a regular slide hammer u	with a Common
air hammer working in reverse. Studying the	make up of the
two should help considerably with the desi	gn. The screw on
the end should be removable in case of	r breakage or to
use other attachments.	

.